

## Upper East Fork Poplar Creek Soils Remediation

**Scope:** The Upper East Fork Poplar Creek (UEFPC) Soils Remediation project will complete all remedial actions specified in the UEFPC Phase II (Soils and Scrapyard) Interim Record of Decision (ROD)<sup>1</sup> except for scrap removal, which will be addressed by the Y-12 Salvage Yard Scrap Removal project. The project will address contaminated soil throughout the Y-12 industrial area, including:

- Pre-design characterization to confirm and fully delineate areas of contamination and identify sources of unacceptable releases to groundwater and surface water;
- Excavation and disposal of accessible contaminated soils exceeding risk-based levels to allow for controlled industrial land use up to a depth of 2 ft (up to a depth of 10 ft in the easternmost part of Y-12 to allow for more aggressive future DOE development);
- Excavation and disposal of accessible contaminated soils exceeding risk-based levels for protection of groundwater and surface water to the depth of the water table or bedrock;
- Limited groundwater monitoring near deep soil excavation areas and implementation of land use controls.

UEFPC soils remediation actions will be sequenced with facility Deactivation and Decommissioning (D&D) and Y-12 Salvage Yard scrap removal actions that are planned under separate projects. Soils and building slabs that become accessible will be remediated to meet site clean-up and modernization objectives. The UEFPC Soils Remediation project is planned for implementation as part of the Integrated Facility Disposition Program (IFDP) at an estimated cost of \$761M.

### Environmental Risk and Principal Threat Source Material Rating: **Medium**

- The UEFPC Soils Remediation project will address residual mercury contamination in soil beneath and adjacent to former mercury use buildings, which is a contributing source of contamination to groundwater and mercury flux to nearby UEFPC.
- Remediation of UEFPC soils will protect industrial workers from exposure to hazardous substances [radionuclides, mercury and other metals, and polychlorinated biphenyls (PCBs)] at Y-12.

### Other Prioritization Factors:

- The UEFPC Soils Remediation project, along with facility D&D projects, will release strategic real estate as part of the planned transformation of Y-12 into a modernized, cost-effective Nuclear Weapons Complex.

### Overall Prioritization: **Medium**

- Scrap removal at the Y-12 Salvage Yard (separate project) and remediation of underlying Y-12 Salvage Yard soils as part of this UEFPC Soils Remediation project are planned for early implementation by IFDP. The Y-12 Salvage Yard soils are the largest area planned for excavation in the UEFPC Phase II Interim ROD. In areas slated for facility D&D, soils remediation will be implemented after building demolition. The overall prioritization for the UEFPC Soils Remediation project is **Medium**.

*The information presented in this fact sheet is preliminary and will be refined during Critical Decision-2/3 development.*

<sup>1</sup> Record of Decision for Phase II Interim Remedial Actions for Contaminated Soils and Scrapyard in Upper East Fork Poplar Creek, Oak Ridge, Tennessee, DOE/OR/01-2229&D3, DOE 2006

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For more information, please contact the DOE public affairs office at (865) 576-0885.

